

## CLAIMS:

1. An X-ray device provided with an X-ray source (2) and an X-ray detector (3) which are mounted at a respective end of a common holding device (12), the holding device (12) being connected to the room by way of a supporting device (18), characterized in that the supporting device (18) is composed of a plurality of hinged, serially 5 interconnected supporting members (15, 16, 17).

2. An X-ray device as claimed in claim 1, characterized in that the supporting device (18) is a serial manipulator, notably a robot arm.

10 3. An X-ray device as claimed in claim 1, characterized in that the supporting device (18) is constructed and connected to the holding device (12) in such a manner that the holding device with the X-ray source (2) and the X-ray detector (3) can be positioned completely as desired.

15 4. An X-ray device as claimed in claim 1, characterized in that the motions of the individual supporting members (15, 16, 17) of the supporting device (18) can be controlled.

5. An X-ray device as claimed in claim 1, 20 characterized in that the supporting device (18) is connected to the holding device (12) by way of a hinge (13).

6. An X-ray device as claimed in claim 1, characterized in that the holding device (12) is composed of at least two holding members 25 (19, 20, 21), the X-ray source (2) being mounted on a first holding member (20) whereas the X-ray detector (13) is mounted on a second holding member (21).

7. An X-ray device as claimed in claim 1, characterized in that the holding device (12) is a C-arm.

8. An X-ray device as claimed in claim 1,  
characterized in that there are provided means for monitoring the distance between an object  
to be examined and moving parts (2, 3, 12, 18) of the X-ray device, notably the X-ray source  
5 (2) and the X-ray detector (3).

9. An X-ray device as claimed in claim 8,  
characterized in that the means for monitoring the distance are provided with ultrasound  
sensors and ultrasound detectors.

10. An X-ray device as claimed in claim 8,  
characterized in that the means for monitoring the distance include mechanical contact  
sensors.